

Tropical Farms Water Treatment Plant Expansion

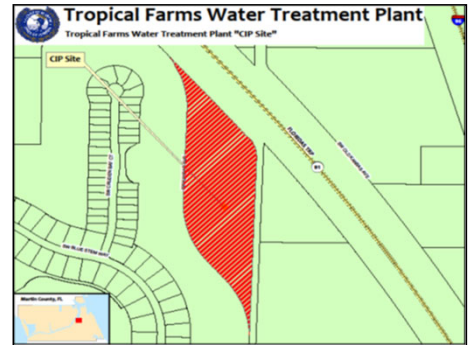
Category Concurrency
Project Number 3165
Location Tropical Farms
District 4

Project Limits Tropical Farms Water Treatment Plant

Related Projects
Lead Dept/Division Utilities
Year Project Initiated Proposed during FY25 CIP Workshop

Project Life Cycle 50 Years

Resilience Requirements
☐ 2040 Vulnerability
 ☐ 2070 Vulnerability
 ☐ 2100 Vulnerability



DESCRIPTION

In FY25: design, permitting, and construction of Floridan Well #8 for the Tropical Farms Water Treatment Plant. FY26: design, permitting, and construction of a 4.6 million gallons per day (mgd) expansion of the Tropical Farms Water Treatment Plant and associated wellfield.

BACKGROUND

The consolidated potable water system is currently rated at 19.3 mgd. At buildout, the system is anticipated to be rated at 25.3 mgd to accommodate existing customers and future growth. In 2023, an engineering evaluation was completed comparing the pros and cons of multiple options for treatment capacity expansion.

PROJECT ORIGINATION

Infrastructure Needs

JUSTIFICATION

Based on the 2023 evaluation, a 4.6 mgd expansion at the Tropical Farms Water Treatment Plant was chosen to be the most cost effective and best fit option for additional capacity. This option takes advantage of existing infrastructure at Tropical Farms including two existing deep wells for concentrate disposal, is the lowest cost per gallon when compared to the other options evaluated, does not require additional staff to operate, and can be completed in a relatively short time frame.

Expenditures	Total	To Date		Funded					Unfunded
				FY25	FY26	FY27	FY28	FY29	FY30-FY34
Engineering & Planning	2,500,000			2,500,000					
Construction	40,000,000				40,000,000				
Expenditure Total	42,500,000	0		2,500,000	40,000,000	0	0	0	0
Revenues	Total	To Date	Carryover	FY25	FY26	FY27	FY28	FY29	FY30-FY34
CFC Water Fund	2,500,000		1,500,000	1,000,000					
Loan	40,000,000				40,000,000	0			
Revenue Total	42,500,000	0	1,500,000	1,000,000	40,000,000	0	0	0	0
Total Unfunded									0

OPERATING BUDGET IMPACT

There will be an increase to the operating budget for electrical and maintenance costs associated with the additional supply and treatment systems. At this time, the exact impact is unknown but is anticipated to be minor in the operating budget.